

Product datasheet for **SC122190**

CACNG7 (NM_031896) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CACNG7 (NM_031896) Human Untagged Clone
Tag:	Tag Free
Symbol:	CACNG7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC122190 sequence for NM_031896 edited (data generated by NextGen Sequencing)

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ATGAGTCACTGCAGCAGCCGCGCCTGACCCTGCTGAGCAGCGTGTGGTGCGTGTGGC
CTGCTCCTGGTAGGCATCGCGGTCAGCACTGACTACTGGCTGTACATGGAAGAAGGCACA
GTGCTACCGCAGAACAGACCACCGAGGTCAAGATGGCCCTGCACGCCGGCCTCTGGCGA
GTCTGCTTCTTTGCAGGTCGGGAGAAAGGTCGCTGTGTGGCCTCAGAATATTTTCTTGAA
CCGGAGATCAATTTGGTGACGGAAAACACGGAGAATATTCTGAAGACAGTGCGCACGGCC
ACCCCTTCCCATGGTCAGCCTCTTCTCGTGTTCACGGCCTTCGTTCATCAGCAACATC
GGCCACATCCGCCCGCAGAGGACCATTCTGGCTTTTGTCTCTGGCATCTTCTTACTACTA
TCGGGCTCTCCTTGGTGGTGGGCTTGGTCTTTACATCTCCAGCATCAACGACGAGGTC
ATGAACAGGCCACGAGCTCTGAGCAGTATTTTCATTATCGTACGGGTGGTCTTTTGCC
TTCCCGCTTCTCCTTCTACTCAAAGAGGGGGCCGGCGTGATGTCCTGTACCTGTTC
ACCAAGCGCTACGCGGAGGAGGATGTACCGTCCACACCCGGCCTTCTACCGCCCGCT
CTCAGCGACTGCTCCGACTACTCGGCCAGTTCCTGCAGCCCAGGCGTGGCGCCGCGGC
CGGAGCCCTCCGACATCTCCAGCGACGTGCCATCCAAATGACGCAGAACTACCCTCCC
GCCATCAAGTACCGGACCACCTGCACATCTCCACCTCGCCCTGCTGA
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Clone variation with respect to NM_031896.4



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_031896 unedited NNNAAGTTCAGATATTTGTATACGACTCATATAGGGCGGCCGCGATTTCGCCCTTCCTGCC TCTGAGGATGAGTCACTGCAGCAGCCGCGCCCTGACCCTGCTGAGCAGCGTGTGGTGC GTGTGGCTGCTCCTGGTAGGCATCGGGTCAGCACTGACTACTGGCTGTACATGGAAGA AGGCACAGTGTACCGCAGAACCAGACCACCGAGGTCAAGATGGCCCTGCACGCCGGCCT CTGGCGAGTCTGCTTCTTTGCAGGTCGGGAGAAAGTTCGCTGTGTGCCTCAGAATATTT TCTTGAACCGGAGATCAATTTGGTGACGGAAAACACGGAGAATATTCTGAAGACAGTGCG CACGGCCACCCCTTCCCATGGTCAGCCTCTTCTCGTGTTACGGCCTTCGTCAACAG CAACATCGGCCACATCCGCCCGCAGAGGACCATCTGGCTTTTGTCTCTGGCATCTTCTT CATACTATCGGGCCTCTCCTTGGTGGTGGGCTTGGTTCTTTACATCTCCAGCATCAACGA CGAGGTATGAACAGGCCAGCAGCTCTGAGCAGTATTTTATTATCGCTACGGGTGGTC TTTTGCCTTCGCCGCTTCTCCTCCTACTCAAAGAGGGGGCCGGCGTGATGTCCGTGTA CCTGTTACCAAGCGCTACGCGGAGGAGAGATGTACCGTCCACACCCGGCCTTCTACCG CCCGCGTCTCAGCGACTGCTCCGACTACTCGGGCCAGTTCCTGCAGCCCGAGGCGTGGCG CCGCGGCCGGAGCCACTCCGAATCTCCAGCGACGTGCCATCCCAATGACGCAGAATACT CCTCCCGCATCAAGTACCCGGACCACCTGCACATCTGCACCTCGCCCTGCTGGAGCCCG CCCA
Restriction Sites:	Please inquire
ACCN:	NM_031896
Insert Size:	1200 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_031896.3 , NP_114102.2
RefSeq Size:	1564 bp
RefSeq ORF:	828 bp
Locus ID:	59284
UniProt ID:	P62955
Cytogenetics:	19q13.42
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane

Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway
Gene Summary:	The protein encoded by this gene is a type II transmembrane AMPA receptor regulatory protein (TARP). TARPs regulate both trafficking and channel gating of the AMPA receptors. This gene is part of a functionally diverse eight-member protein subfamily of the PMP-22/EMP/MP20 family and is located in a cluster with two family members, a type I TARP and a calcium channel gamma subunit. [provided by RefSeq, Dec 2010]